

Walking around my neighborhood, the most common form of green energy I see is solar energy, with multiple households adopting solar panels on their rooftops. However, there are various other forms of sustainable energy power plants in my city and near the coast such as hydropower plants, tidal power stations, and wind turbines.

Personally, I have been involved in research using data from two solar power plants to propose a way of quickly identifying malfunctioning solar panels. I've also employed programming skills to train a mathematical model that helps forecast electricity generation in the near future. I can help my local renewable energy stations by continuing to provide them with technical ways to optimize their management. Besides, since some policies and financial restraints are in the way of expanding green energy in my area, I can contact my local legislators to suggest improvements policy-wise and urge them to financially support the sustainable energy industry.

There is usually a strong wind on the mountain near my area, so wind energy can be exploited more there; The strong water current provides possibilities for hydropower; The most promising form, based on my research, is solar energy, because of the amount of sunlight my location receives every year, which would make solar electricity generation more stable.

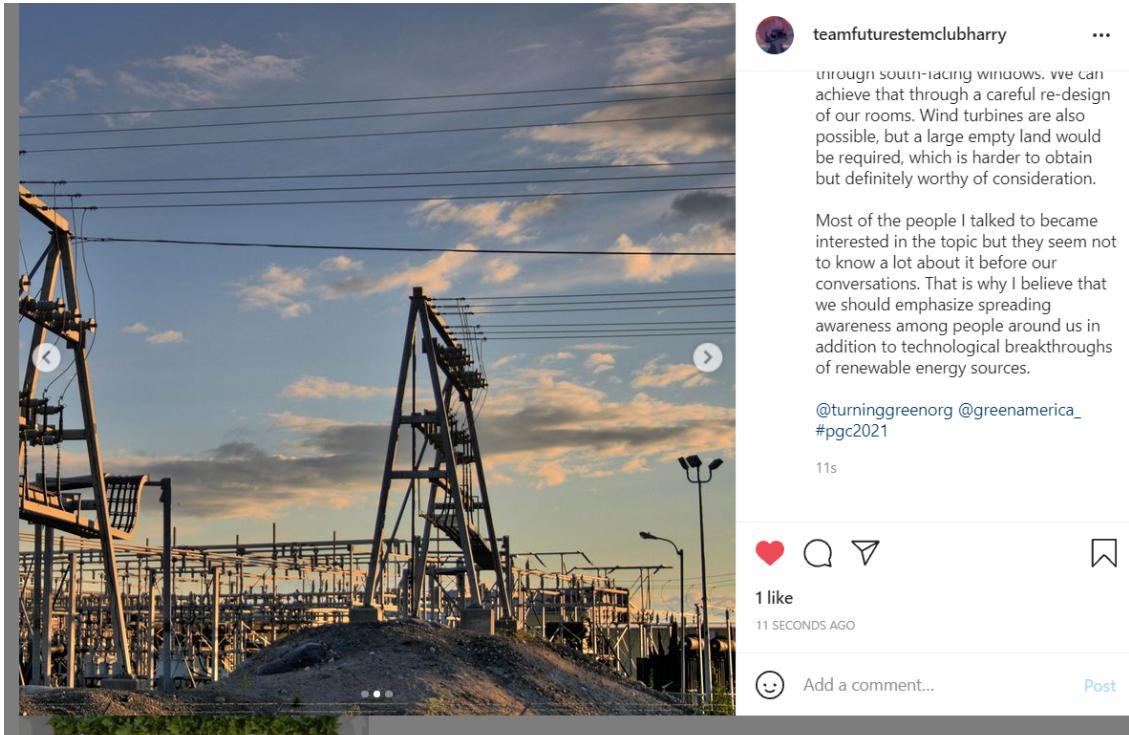
Thus, installing solar panels is the most feasible and effective way of harnessing green energy in my neighborhood. Another significant way of using solar energy is through passive solar heating, where we collect and retain heat as the sun shines through south-facing windows. We can achieve that through a careful re-design of our rooms. Wind turbines are also possible, but a large empty land would be required, which is harder to obtain but definitely worthy of consideration.

The most likely way for my neighborhood to utilize more sustainable energy is to use more solar energy, both active (panels) and passive (heating). I would first spread actionable awareness to convince my neighbors of the benefits of employing renewable energy over fossil fuels. Then, I would guide them to learn about different forms of green energy, especially solar energy. This way can I help realize the more sustainable lifestyles of my community in the future.

I first spoke to my parents and they were shocked that a wide variety of renewable energy sources can be implemented in our area. They were supportive of my proposal to start with our own house and minimize the use of electricity from fossil fuels. They were excited to talk to our neighbors about that as well.

I then share my findings with my friends who are also passionate about sustainability and they were eager to conduct similar research in their neighborhoods. We are planning to start a project focused on green energy in our school club, too!

Most of the people I talked to became interested in the topic but they seem not to know a lot about it before our conversations. That is why I believe that we should emphasize spreading awareness among people around us in addition to technological breakthroughs of renewable energy sources.



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